



Increase reliability

Maximize productivity

Extend instrument life

Agilent Preventive Maintenance Services

Studies show that 60% of instrument failures can be traced to a single cause – lack of preventive maintenance*. These studies also show that failure rates decrease by up to 25% for all mechanical systems when a laboratory implements a preventive maintenance program.

That's why it pays to have experienced, highly-trained service engineers regularly clean your instrument and perform the vital system checks that can maintain the reliability and sensitivity of your instruments. You'll increase reliability, maximize productivity and extend your instruments' life.

At Agilent we carefully tailor our preventive maintenance services to **match your instruments, your industry, and your particular needs**. So take a moment now to review the services detailed on the following pages. Then talk to your Agilent Representative about implementing the services that are designed to maximize your uptime.

Our measure is your success.



GC Preventive Maintenance Service

Designed to keep Agilent GCs performing at the highest levels of reliability and sensitivity. This service includes:

- **Inspection:** Perform general inspection of the complete system.
- **System Cleaning:** Remove dust from fans and vent covers, inspect and clean inlet and detector where applicable.
- **Leak Test:** Perform inlet pressure decay test.
- **Autosampler Maintenance:** Inspect cabling and configuration setting. Inspect and clean syringe and all fans.
- **Verification:** Re-establish normal operating conditions, check and record detector offset. Perform chemical checkout.
- **Documentation:** Record maintenance in instrument service logs.



Enhanced GC Preventive Maintenance Service

Created especially for GCs equipped with the G1888A headspace sampler, it includes all GC Preventive Maintenance items, plus the following additional maintenance on the headspace sampler:

- **Replace Flow Path Components:** Tubing assembly, union, sample probe, and loop.
- **System Cleaning:** Vacuum dust from pneumatic compartment, clean 6-port valve sensor.

GC/MS Preventive Maintenance Service

This service includes all of the steps listed above for GC preventive maintenance, plus:

- **Source Cleaning:** Remove and clean the Mass Spec ion source.
- **Vacuum System Maintenance:** Inspect vacuum pumps, and replace mechanical/diffusion pump oil.
- **Vacuum System Verification:** Establish vacuum and verify pressure. Perform system auto-tune.



ICP/MS Preventive Maintenance Service

This service includes:

- **Inspection:** Perform general inspection of the complete system.
- **System Cleaning:** Remove covers and clean dust from fans and vent covers.
- **Pump Maintenance:** Replace oil mist filter, drain and replace mechanical pump oil. Verify proper pump operation.
- **Ion Lens Cleaning:** Remove and clean surfaces of the ion lens. Sonicate ion lens parts.
- **Vacuum System Maintenance:** Inspect vacuum hoses and exhaust tubes for possible problems. Check pump for evidence of leakage.
- **Verification:** Check quadropole matching. Replace octopole and perform octopole matching. Perform system auto-tune.
- **Documentation:** Record maintenance in instrument service logs.

LC Preventive Maintenance Service

This service includes:

- **Inspection:** Perform general inspection of the complete system.
- **System Cleaning:** Remove dust from fans and vent covers.
- **LC Pump Maintenance:** Replace pump head seal, purge valve seal, and filter assembly frits. Perform wear-in procedure and leak test.
- **Sampler Maintenance:** Replace rotor seal and needle seat assembly. Clean and inspect sampler and perform pressure test.
- **Column Maintenance:** Replace column switching valve rotor seal. Perform pressure test.
- **Valve Maintenance:** Replace rotor seal. Inspect valve fittings and capillaries for leaks.
- **Detector Maintenance:** Inspect flow cell for leaks and verify performance.
- **Fraction Collector Maintenance:** Replace tubing. Clean and inspect ALS thermostat.
- **Verification:** Prime system and run test injection.
- **Documentation:** Record maintenance in instrument service logs.



LC/MS Preventive Maintenance Service

This service includes all the steps listed above for LC preventive maintenance, plus:

- **Source Cleaning:** Remove and clean the Mass Spec ion source.
- **Vacuum System Maintenance:** Inspect vacuum pumps, and replace mechanical pump oil.
- **Vacuum System Verification:** Establish vacuum and verify pressure. Perform system auto-tune.

Enhanced LC and LC/MS Preventive Maintenance Service

Designed exclusively for Agilent 1100 and 1200 LCs and LC/MSs equipped with these LCs. Includes all LC Preventive Maintenance items, plus:

- **Enhanced LC Pump Maintenance:** Replace outlets, outlet caps, sieves for outlet valves, active inlet valve cartridge, sapphire pistons, plunger seals, glass solvent inlet filters, and support seal assemblies.
- **Autosampler Maintenance:** Replace stator face assembly and isolation seal.
- **Detector Maintenance:** Replace deuterium lamp. Install standard flow cell kit.

Interim LC and LC/MS Preventive Maintenance

Depending on your usage and sample types, Agilent also recommends Interim Preventive Maintenance to inspect your vacuum system and replace pump oil between annual maintenance services.



Enhance your
instruments' reliability.

Get more information regarding the many benefits of Agilent Preventive Maintenance. Or learn how Agilent's full portfolio of Service and Support solutions can help you achieve the highest accuracy and productivity at www.agilent.com/chem/services

*Based on Agilent service and repair studies.

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